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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/862,440	05/23/2001	Masahiro Takagi	208915US2RD	8894	
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	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			NOBAHAR, ABDULHAKIM	
				PAPER NUMBER	
			2132		

DATE MAILED: 11/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
· ·	09/862,440	TAKAGI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Abdulhakim Nobahar	2132			
The MAILING DATE of this communication appearing for Reply	ppears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a reply be tile 1.136(a). In no event, however, may a reply be tile 1.136(a). In no event, however, may a reply be tile 2.137(a). 2.138(a). 2.138(a). 3.138(a). 3.138(a). 4.138(a). 4.138(a). 5.138(a). 6.138(a). 6.	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status		(
1) Responsive to communication(s) filed on	·				
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examir	ner.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	, ,			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I	• • • • • • • • • • • • • • • • • • • •	•			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat iority documents have been receiv eau (PCT Rule 17.2(a)).	tion No red in this National Stage			
Attachment(s)	<u>_</u>				
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D				
3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 5/23/01.8/23/01.9		Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Caronni (6,507,908 B1).

Caronni discloses a secure system for transferring packets between a mobile terminal and a host terminal located in a network via a gateway (see abstract; col. 4, lines 26-37; Fig. 2).

Regarding claims 1, 10 and 19-22, Caronni discloses a gateway that forwards the data packets on to higher network layers includes a packet analysis device (corresponding to the recited a security information management unit), which monitors the addresses of inbound and outbound packets to machines outside of a secure network (col. 6, lines 24-51). The analysis device extracts keys from packet headers to determines the corresponding secure IP addresses related to the cryptography of the

packets (corresponding to the recited to manage information regarding a security association set up between to communicating terminals) (see col. 3, lines 40-62; col. 7, lines 59-67). Caronni also discloses that the gateway includes a unit for encryption and decryption of received packets at the gateway using associated encryption keys that maybe maintained in a database and transmitting the packets to the destination terminal (see col. 8, lines 20-35 and Fig. 3, device 303). Caronni further discloses that the gateway has a function of forwarding the data packets to the higher network protocol layer based on the packet IP header examination and after decrypting the packet (corresponding to the recited data relay unit perform the data relaying at the transport or upper layer based on the decrypted data) (see col. 1, lines 30-40; col. 3, lines 50-62; col. 4, lines 17-25; col. 7, lines 46-58).

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Regarding claims 2 and 11, Caronni discloses that the gateway is located between a mobile computer and a computer in a wired network (see Fig. 2, where mobile unites 204 and 214 communicates with the computers in the network 107 through gateway 102).

Regarding claims 3 and 12, Caronni discloses the packet analysis device of the gateway extracts the keys (corresponding to the recited security association) from a field in the packet header provided by the sending computer (see col. 2, lines 40-50; col. 9, lines 19-49).

Regarding claims 4-6 and 13-15, Caronni discloses that the gateway may obtain the key information (corresponding to the recited security association) for cryptography operation on the transmitting packets from a database, which may be located on a server (see col. 9, lines 19-49; Fig. 3, 307).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7, 8, 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caronni (6,507,908 B1) in view of Inoue et al (6,170,057 B1; hereinafter Inoue).

Regarding claims 7, 8, 16 and 17, Caronni does not expressly disclose a mechanism for transferring information regarding the security association to a gateway belong to a network when a mobile terminals moves to an area covered by the network (i.e., visited network).

Inoue discloses a method for encryption and authentication of packets transmitted to and from a mobile terminal to another computer in a computer network (see abstract and Fig. 1).

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Inoue discloses that when a mobile computer moves from one network such as the home network to another network the gateway of the first network controls the security information regarding to the encryption process of the packets and transfers the security information to the gateway of the visited network (see Figs. 2 and 6; col. 2, line 63-col. 3, line 23; col. 8, lines 33-67).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include a mechanism (i.e., a handoff unit) in the gateway of the home network for handing over necessary security information to a next gateway as taught in Inoue in the system of Caronni when a mobile terminal moves to a visited network because it would improve the efficiency of encryption/decryption process of the transmitting packets (Inoue, col. 3, lines 23-49).

Regarding claims 9 and 18, Inoue discloses that the gateway in the home network of the mobile computer encapsulates the received IP packet and transmits to the gateway in the visited network (col. 6, lines 43-52). Inoue further discloses a mechanism to determine (corresponding to the recited judge) whether the security policy of the visited network is the same as the home network (see col. 2, line 63-col. 3, line 22). If the security policies are different the encryption process of the packets are performed at the mobile computer not by the gateway of the visited network. This means that packet relaying is occurred at the gateway of the visited network.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. 6,438,612 B1 to Ylonen et al.

US Patent no. 5,416,842 to Aziz.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdulhakim Nobahar whose telephone number is 703-305-8074. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 703-305-1830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Abdulhakim Nobahar Examiner Art Unit 2132

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November 10, 2004

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GILBERTO BARRON SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100